

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-20 (Canceled).

Claim 21 (Previously Presented): A liquid development method comprising:

applying a liquid developer containing a toner dispersed in a carrier liquid, via an application member, to a surface of a developer support used to develop a latent image on a surface of a latent image support;

before developing the latent image, compressing the toner on the developer support surface by press-contacting a before-development toner compression member against the developer support surface at a location downstream, in a moving direction of the developer support surface, of where the developer support faces the application member and upstream, in a moving direction of the developer support surface, of where the developer support faces the latent image support; and

applying independent voltages to the developer support and the before-development toner compression member.

Claim 22 (Previously Presented): The liquid development method of claim 21, wherein one of the developer support and the before-development toner compression member are flexible.

Claim 23 (Previously Presented): The liquid development method of claim 21, wherein the independent voltages applied to the developer support and the before-development toner compression member have a potential difference which moves the toner towards the developer support.

Claim 24 (Previously Presented): The liquid development method of claim 21, further comprising:

cleaning a surface of the before-development toner compression member at a location downstream, in a moving direction of the before-development toner compression member surface, of where the before-development toner compression member faces the developer support.

Claim 25 (Previously Presented): The liquid development method of claim 21, wherein the independent voltages applied to the developer support and the before-development toner compression member have a potential difference which prevents adhesion of toner to the before-development toner compression member.

Claim 26 (Currently Amended): The liquid development method of claim 21, wherein the developer support and the ~~before-development toner compression~~ application member have substantially a same potential in a portion where the developer support ~~and the before-development toner compression~~ application member communicate via the developer.

Claim 27 (Previously Presented): The liquid development method of claim 21, wherein the latent image support comprises a-Si.

Claim 28 (Previously Presented): A liquid development method comprising:  
applying a liquid developer containing a toner dispersed in a carrier liquid, via an application member, to a surface of a developer support used to develop a latent image on a surface of a latent image support;

before developing the latent image, compressing the toner on the developer support surface by applying independent voltages to the developer support and a before-development toner compression member, the before-development toner compression member facing the developer support surface at a location downstream, in a moving direction of the developer support surface, of where the developer support faces the application member and upstream, in a moving direction of the developer support surface, of where the developer support faces the latent image support,

wherein the before-development toner compression member and the developer support are separated by a gap therebetween.

Claim 29 (Previously Presented): The liquid development method of claim 28, wherein a surface roughness of the developer support and a surface roughness of the before-development toner compression member are  $R_z = 10 \mu\text{m}$  or less.

Claim 30 (Previously Presented): The liquid development method of claim 28, wherein the independent voltages applied to the developer support and the before-development toner compression member have a potential difference which moves the toner towards the developer support.

Claim 31 (Previously Presented): The liquid development method of claim 28, further comprising:

cleaning a surface of the before-development toner compression member at a location downstream, in a moving direction of the before-development toner compression member surface, of where the before-development toner compression member faces the developer support.

Claim 32 (Previously Presented): The liquid development method of claim 28, wherein the independent voltages applied to the developer support and the before-development toner compression member have a potential difference which prevents adhesion of the toner to the before-development toner compression member.

Claim 33 (Currently Amended): The liquid development method of claim ~~21~~ 28, wherein the developer support and the ~~before-development toner compression~~ application member have substantially a same potential in a portion where the developer support and the ~~before-development toner compression~~ application member communicate via the developer.

Claim 34 (Previously Presented): The liquid development method of claim 28, wherein the latent image support comprises a-Si.

Claim 35 (Previously Presented): A liquid development method comprising:  
applying a liquid developer containing a toner dispersed in a carrier liquid, via an application member, to a surface of a developer support used to develop a latent image on a surface of a latent image support;

before developing the latent image, compressing the toner on the developer support surface by applying independent voltages to the developer support and a conductive surface of a before-development toner compression member, the before-development toner compression member facing the developer support surface at a location downstream, in a moving direction of the developer support surface, of where the developer support faces the application member and upstream, in a moving direction of the developer support surface, of where the developer support faces the latent image support,

wherein the before-development toner compressing member and the developer support do not directly touch one another.

Claim 36 (Previously Presented): The liquid development method of claim 35, further comprising:

if a gap is not formed between the before-development toner compression member and the developer support, insulating the developer support from the before-development toner compression member in a portion where the developer is not applied to the developer support.

Claim 37 (Previously Presented): The liquid development method according to claim 36, wherein if a gap is not provided between the before-development toner compression member and the developer support, or if the before-development toner compression member abuts against the developer support with a nip, the before-development toner compression member abuts against the developer support via an insulation member in the portion where the developer is not applied.

Claim 38 (Previously Presented): The liquid development method according to claim 36, wherein if a gap is not provided between the before-development toner compression member and the developer support, or if the before-development toner compression member abuts against the developer support with a nip, at least the surface of at least either one of the before-development toner compression member and the developer support is formed of an insulation member, in the portion where the developer is not applied.

Claim 39 (Previously Presented): The liquid development method of claim 35, further comprising:

if a gap is not provided between the before-development toner compression member and the developer support, shortening one of the before-development toner compression member and the developer support to less than an application width of the developer.

Claim 40 (Previously Presented): The liquid development method of claim 35, wherein the latent image support comprises a-Si.

Claim 41 (Previously Presented): A liquid development method comprising:  
applying a liquid developer containing a toner dispersed in a carrier liquid to a surface of a developer support used to develop a latent image on a surface of a latent image support;  
and

before developing the latent image, compressing the toner on the developer support surface by applying a voltage to a conductive surface of a before-development toner compression member,

wherein the before-development toner compression member faces the developer support via the developer so as not to directly touch with each other.

Claim 42 (Previously Presented): The liquid development method of claim 41, further comprising:

if a gap is not formed between the before-development toner compression member and the developer support, insulating the developer support from the before-development toner compression member in a portion where the developer is not applied to the developer support.

Claim 43 (Previously Presented): The liquid development method according to claim 42, wherein if a gap is not provided between the before-development toner compression member and the developer support, or if the before-development toner compression member abuts against the developer support with a nip, the before-development toner compression member abuts against the developer support via an insulation member in the portion where the developer is not applied.

Claim 44 (Previously Presented): The liquid development method according to claim 42, wherein if a gap is not provided between the before-development toner compression member and the developer support, or if the before-development toner compression member abuts against the developer support with a nip, at least the surface of at least either one of the before-development toner compression member and the developer support is formed of an insulation member, in the portion where the developer is not applied.

Claim 45 (Previously Presented): The liquid development method of claim 41, further comprising:

if a gap is not provided between the before-development toner compression member and the developer support, shortening one of the before-development toner compression member and the developer support to less than an application width of the developer.

Claim 46 (Previously Presented): The liquid development method of claim 41, wherein the latent image support comprises a-Si.

Claim 47 (Previously Presented): A liquid development method comprising:

applying a liquid developer containing a toner dispersed in a carrier liquid, via an application member, to a surface of a developer support used to develop a latent image on a surface of a latent image support;

before developing the latent image, compressing the toner on the developer support surface by charging a before-development toner compression member facing the developer support surface at a location downstream, in a moving direction of the developer support surface, of where the developer support faces the application member and upstream, in a moving direction of the developer support surface, of where the developer support faces the latent image support; and

applying a voltage to the developer support.

Claim 48 (Previously Presented): The liquid development method of claim 47, wherein the before-development toner compression member comprises a photosensitive body.

Claim 49 (Previously Presented): The liquid development method of claim 47, wherein the latent image support comprises a-Si.

Claim 50 (Previously Presented): A liquid development method comprising:  
applying a liquid developer containing a toner dispersed in a carrier liquid to a surface of a developer support used to develop a latent image on a surface of a latent image support;  
and

before developing the latent image, compressing the toner on the developer support surface by press-contacting an insulation surface of a before-development toner compression member against the developer support surface,



wherein a voltage is applied to the developer support and the before-development toner compression member is charged by a charging mechanism.

Claim 51 (Previously Presented): The liquid development method of claim 50, wherein the before-development toner compression member comprises a photosensitive body.

Claim 52 (Previously Presented): The liquid development method of claim 50, wherein the latent image support comprises a-Si.

Claim 53 (Previously Presented): A liquid development method of an electrostatic latent image comprising:

applying a liquid developer containing a toner dispersed in a carrier liquid and having a viscosity of from 100 to 1000 mPa·s, via an application unit having a plurality of rollers, to a surface of a developer support used to develop an electrostatic latent image;

applying a voltage to at least one roller of the plurality of rollers; and

applying a voltage between a feed roller soaked in the liquid developer and a conductive plate arranged in a tank holding the developer to thereby control the number of revolutions of the feed roller and the density of the liquid developer.

Claim 54 (Previously Presented): The liquid development method of claim 53, further comprising:

measuring the density of the liquid developer applied on the developer support, to thereby control the application of voltage to the at least one roller of the plurality of rollers.

Claim 55 (Previously Presented): The liquid development method of claim 53, further comprising:

measuring the density of the liquid developer applied on the developer support to thereby control a peripheral velocity of the plurality of rollers.

Claim 56 (Previously Presented): The liquid development method of claim 53, wherein the plurality of rollers, excluding the feed roller, are of substantially a same potential as a voltage applied to the developer support.

Claim 57 (Previously Presented): The liquid development method of claim 53, wherein the density of the liquid developer is controlled by generating a potential difference between a carrier roller of the plurality of rollers and the feed roller, and

the carrier roller is separated by a predetermined gap from the feed roller.

Claim 58 (Previously Presented): The liquid development method of claim 53, wherein the plurality of rollers has an application roller which makes contact with the developer support, and

the density of the liquid developer is controlled by generating a potential difference between the application roller and the developer support.

Claim 59 (Previously Presented): The liquid development method of claim 53, wherein the plurality of rollers has an application roller which makes contact with the developer support,

a carrier roller is separated by a predetermined gap from the feed roller and brought into contact with the application roller, and

the density of the liquid developer is controlled by generating a potential difference between the carrier roller and the application roller.

Claim 60 (Previously Presented): The liquid development method of claim 53, wherein the liquid developer includes an insulation liquid having a viscosity from 0.5 to 1000 mPa·s, an electrical resistance of at least  $10^{12} \Omega\text{cm}$ , a surface tension of 21 dyn/cm or less, and a boiling point of 100°C or higher.

Claim 61 (Previously Presented): The liquid development method of claim 60, wherein the insulation liquid includes silicon oil.

Claim 62 (Previously Presented): The liquid development method of claim 53, wherein the toner of the liquid developer has an average particle diameter of from 0.1 to 5  $\mu\text{m}$  in a density of from 5 to 40%.

Claim 63 (Previously Presented): A wet-type image formation method comprising:  
applying a liquid developer containing a toner dispersed in a carrier liquid to a surface of a developer support used to develop an electrostatic latent image on a surface of a latent image support;

generating an electric field between the latent image support and the developer support, to develop the electrostatic latent image on the latent image support with the liquid developer on the developer support;

generating a background electric field between a background section on the latent image support and the developer support, to attract a background residual toner remaining in the background section on the latent image support towards the developer support after

development by the background electric field, to thereby remove the background residual toner from the background section; and

setting an absolute value of the background electric field substantially equal to or less than a value at which the background residual toner attracted towards the developer support does not flocculate.

Claim 64 (Previously Presented): The wet-type image formation method of claim 63, wherein the range of the background electric field is set to be not higher than  $3.5 \times 10^7$  V/m in an absolute value.

Claim 65 (Previously Presented): The wet-type image formation method of claim 64, comprising:

attracting and removing the background residual toner remaining in the background section on the latent image support after development; and

generating a removal electric field between the background section on the latent image support and the removal member, an absolute value thereof being less than or equal to a value at which the background residual toner attracted towards the developer support does not flocculate.

Claim 66 (Previously Presented): The wet-type image formation method of claim 64, wherein the range of the removal electric field is set to be not higher than  $5.0 \times 10^7$  V/m in an absolute value.

Claim 67 (Previously Presented): The wet-type image formation method of claim 64, further comprising:

attracting and removing the background residual toner remaining in the background section on the latent image support after development; and  
recycling the background residual toner attracted to the removal member for development.

Claim 68 (Previously Presented): The wet-type image formation method of claim 63, further comprising:

recycling the residual toner remaining on the developer support for development.

Claim 69 (Previously Presented): The wet-type image formation method of claim 68, further comprising:

attracting and removing the background residual toner remaining in the background section on the latent image support after development; and  
generating a removal electric field between the background section on the latent image support and the removal member, the absolute value thereof being set to less than or equal to a value at which the background residual toner attracted towards the developer support does not flocculate.

Claim 70 (Previously Presented): The wet-type image formation method of claim 68, wherein the range of the removal electric field is set not higher than  $5.0 \times 10^7$  V/m in an absolute value.

Claim 71 (Previously Presented): The wet-type image formation method of claim 68, further comprising:

attracting and removing the background residual toner remaining in the background section on the latent image support after development; and

recycling the background residual toner attracted to the removal member for development.

Claim 72 (Previously Presented): The wet-type image formation method of claim 63, further comprising:

attracting and removing the background residual toner remaining in the background section on the latent image support after development; and

generating a removal electric field between the background section on the latent image support and the removal member, the absolute value thereof being set less than or equal to a value at which the background residual toner attracted towards the developer support does not flocculate.

Claim 73 (Previously Presented): A wet-type image formation method comprising:

developing an electrostatic latent image on a latent image support which supports the electrostatic latent image via a developer support which supports a liquid developer containing a toner dispersed in a carrier liquid;

attracting and removing a background residual toner remaining in the background section on the latent image support after development; and

generating a removal electric field between the background section on the latent image support and the removal member, the absolute value thereof being set to less or equal to a value at which the background residual toner attracted towards the removal member does not flocculate.

Claim 74 (Previously Presented): The wet-type image formation method of claim 73, wherein the range of the removal electric field is set to not higher than  $5.0 \times 10^7$  V/m in an absolute value.

Claim 75 (Previously Presented): The wet-type image formation method of claim 73, further comprising:

recycling the background residual toner attracted to the removal member for development.

Claim 76 (Previously Presented): The wet-type image formation method of claim 73, wherein the range of the removal electric field is set to not higher than  $5.0 \times 10^7$  V/m in an absolute value.

Claim 77 (Previously Presented): The wet-type image formation method of claim 73, further comprising:

attracting and removing the background residual toner remaining in the background section on the latent image support after development; and

recycling the background residual toner attracted to the removal member for development.

Claim 78 (Previously Presented): The wet-type image formation method of claim 73, wherein the thickness of the liquid developer applied on the developer support is such that a content of a pigment in the toner which is supported per  $1 \text{ cm}^2$  on the surface of the developer support is set to at least  $0.1 \text{ } \mu\text{g}$  and not higher than  $2 \text{ } \mu\text{g}$ .

Claim 79 (Previously Presented): An image formation method comprising:

applying a liquid developer containing a toner dispersed in a carrier liquid to a surface of a developer support used to develop a latent image on a surface of a latent image support;

transferring a manifest image on the latent image support developed by the liquid developer to a transfer material;

pressing the developer support against the latent image support to thereby form a developing nip corresponding to a pressurizing force applied by the developer support; and

setting the width of the developing nip, being the size in the moving direction on the surface of the developer support and of the latent image support, in a portion at which the developer support comes in contact with the latent image support, to a predetermined size by adjusting the size of the pressurizing force.

Claim 80 (Previously Presented): The image formation method of claim 79, wherein an elastic surface layer forms the surface of the developer support.

Claim 81 (Previously Presented): The image formation method of claim 79, further comprising:

increasing the pressurizing force by moving the developer support in a direction of the latent image support.

Claim 82 (Previously Presented): The image formation method of claim 79, wherein the developer support and the latent image support are formed by a roller member, respectively, and

the size of the pressurizing force is set by a distance between axes of the roller members.



Claim 83 (Previously Presented): The image formation method according to claim 79, wherein the pressurizing unit has a pressurizing force adjusting unit which adjusts the size of the pressurizing force.

Claim 84 (Previously Presented): An image formation method comprising:  
applying a liquid developer containing a toner dispersed in a carrier liquid to a surface of a developer support used to develop a latent image on a surface of a latent image support;  
transferring a manifest image on the latent image support developed by the liquid developer to a transfer material;  
pressing the developer support against the latent image support to thereby form a developing nip corresponding to a pressurizing force applied by the developer support;  
setting the width of the developing nip, being the size in the moving direction on the surface of the developer support and of the latent image support, in a portion at which the developer support comes in contact with the latent image support, to a predetermined size corresponding to a pressurizing force; and  
restricting a movement of the developer support, via a spacer member, toward the latent image support.

Claim 85 (Previously Presented): The image formation method according to claim 84, wherein the developing nip width setting unit includes:  
a pressurizing unit which makes the developer support apply pressure to the latent image support to thereby form a developing nip, and  
the width of the developing nip in the developing nip is set to a predetermined size by adjusting the size of the press-contacting pressure of the pressurizing unit.

Claim 86 (Previously Presented): The image formation method of claim 85, further comprising:

increasing the pressurizing force by moving the developer support in the direction of the latent image support,

wherein the developer support is moved in the direction of the latent image support by an energizing force.

Claim 87 (Previously Presented): The image formation method of claim 86, wherein the size of the energizing force is set to at least a force necessary for the developer support to move until being restricted by the spacer member, and

an elastic surface layer forms the surface of the developer support.

Claim 88 (Previously Presented): The image formation method according to claim 84, further comprising a developing nip width change unit which changes the width of the developing nip.

Claim 89 (Previously Presented): The image formation method of claim 88, wherein the latent image support is formed in a belt.

Claim 90 (Previously Presented): The image formation method of claim 88, wherein the developer support is formed in a belt.

Claim 91 (Previously Presented): The image formation method of claim 88, wherein a plurality of developer supports approach and separate from the surface of the latent image support to change the width of the developing nip.

Claim 92 (Previously Presented): The image formation method of claim 91, further comprising:

rotating an eccentric cam to shift an axial position of the developer support or an axial position of a support roller which supports a belt-form developer support.

Claim 93 (Previously Presented): The image formation method of claim 84, wherein at least one of the developer support and a liquid removal member is configured to approach and separate from the latent image support.

Claim 94 (Previously Presented): The image formation method of claim 84, wherein at least one of the developer support and a liquid removal member includes an elastic inner layer and a resin surface layer.

Claim 95 (Previously Presented): The image formation method of claim 94, wherein the inner layer includes a reconditioned rubber and the surface layer includes PFA.

Claim 96 (Previously Presented): The image formation method of claim 94, wherein the inner layer includes a urethane rubber and the surface layer includes PFA.

Claim 97 (Previously Presented): The image formation method of claim 94, wherein the inner layer and the surface layer are bonded using a conductive adhesive.

Claim 98 (Previously Presented): The image formation method of claim 94, wherein the inner layer includes a urethane rubber and the surface layer includes a urethane coating layer obtained by coating a urethane resin on the inner layer.

Claim 99 (Previously Presented): The image formation method of claim 84, wherein in the developing nip, the developer support surface and the latent image support surface are moved in the same direction at substantially a same linear velocity.

Claim 100 (Previously Presented): The image formation method of claim 84, wherein the latent image support includes an amorphous silicon type photosensitive body.

Claim 101 (Previously Presented): An image formation method comprising:  
applying a liquid developer containing a toner dispersed in a carrier liquid to a surface of a developer support used to develop a latent image on a surface of a latent image support;  
developing the latent image on the latent image support by a liquid developer supported on the developer support;  
transferring a manifest image on the latent image support developed by the liquid developer to a transfer material;  
pressing the developer support against the latent image support to form a developing nip of a predetermined width, as measured in a moving direction of the contacting surfaces of the developer support and the latent image support; and  
adjusting the width of the developing nip by changing an encroaching quantity of the latent image support with respect to the developing roller.

Claim 102 (Previously Presented): The image formation method of claim 101, wherein the developer support is a developing roller in a roller form, and an elastic surface layer which forms the surface of the developing roller.

Claim 103 (Previously Presented): The image formation method of claim 101, further comprising: rotating an eccentric cam to shift an axial position of the developer support or an axial position of a support roller which supports the belt-like developer support.

Claim 104 (Previously Presented): An image formation method comprising:  
applying a liquid developer containing a toner dispersed in a carrier liquid to a surface of a developer support used to develop a latent image on a surface of a latent image support;  
and

developing the latent image on the latent image support by a liquid developer supported on the developer support;

transferring a manifest image on the latent image support developed by the liquid developer to a transfer material;

pressing the developer support against the latent image support to form a developing nip of a predetermined developing nip width, as measured in a moving direction of the contacting surfaces of the developer support and the latent image support;

removing the liquid developer remaining on the latent image support surface, after development, downstream in a moving direction of the contacting surfaces of the developer support and the latent image support; and

restricting the movement of the liquid removal member toward the latent image support via a spacer member.

Claim 105 (Previously Presented): The image formation method of claim 104, further comprising:

pressing the liquid removal member against the latent image support to thereby form a removal nip of a predetermined removal nip width corresponding to a pressurizing force of the liquid removal member;

moving the liquid removal member, via an energizing force, in a direction of increasing the pressurizing force of the liquid removal member.

Claim 106 (Previously Presented): The image formation method of claim 105, wherein the size of the energizing force is set to at least a force necessary for the liquid removal member to move until being restricted by the spacer member.

Claim 107 (Previously Presented): The image formation method according to claim 104, wherein the liquid removal member pressurizing unit has a liquid removal member pressurization adjusting unit which adjusts the size of the pressurizing force.

Claim 108 (Previously Presented): The image formation method according to claim 104, further comprising a developing nip width change unit which changes the width of the developing nip.

Claim 109 (Previously Presented): The image formation method of claim 108, wherein the latent image support is formed in a belt.

Claim 110 (Previously Presented): The image formation method of claim 108, wherein the developer support is formed in a belt.

Claim 111 (Previously Presented): The image formation method of claim 108, wherein a plurality of developer supports approach and separate from the surface of the latent image support to change the width of the developing nip.

Claim 112 (Previously Presented): The image formation method of claim 111, further comprising:

rotating an eccentric cam to shift an axial position of the developer support or an axial position of a support roller which supports a belt-form developer support in order to make at least one of the plurality of developer supports approach and separate from the surface of the latent image support.

Claim 113 (Previously Presented): The image formation method of claim 104, wherein at least one of the developer support and the liquid removal member is made to approach and separate from the latent image support.

Claim 114 (Previously Presented): The image formation method of claim 104, wherein at least one of the developer support and the liquid removal member includes an elastic inner layer and a resin surface layer.

Claim 115 (Previously Presented): The image formation method of claim 114, wherein the inner layer includes a reconditioned rubber and the surface layer includes PFA.

Claim 116 (Previously Presented): The image formation method of claim 114, wherein the inner layer includes a urethane rubber and the surface layer includes PFA.

Claim 117 (Previously Presented): The image formation method of claim 114, wherein the inner layer and the surface layer are bonded using a conductive adhesive.

Claim 118 (Previously Presented): The image formation method of claim 114, wherein the inner layer is made of a urethane rubber and the surface layer is made of a urethane coating layer obtained by coating a urethane resin on the inner layer.

Claim 119 (Previously Presented): The image formation method of claim 104, wherein, in the developing nip, the developer support surface and the latent image support surface are moved in the same direction at substantially the same linear velocity.

Claim 120 (Previously Presented): The image formation method of claim 104, wherein the latent image support include an amorphous silicon type photosensitive body.